WHAT IS CLAIMED IS:

1.   A digital video scrambler, comprising:

a parser for parsing the content of a digital-encoded input video stream to detect a header portion thereof,

a controller for generating a pseudo random-number, and determining a substituted-character position in said input video stream other than said detected header portion, using said pseudo random-number

a substitutor for performing a scramble processing of said input video stream by a character substitution processing at said determined position, and

an output unit responsive to said substitutor for outputting said scramble-processed video stream.

2.   The digital video scrambler according to Claim 1, further comprising

an input unit for inputting information for specifying a scramble level corresponding to said inputted video stream,

an encryption key generator for creating a private key, and

an encryption unit for encrypting and outputting said inputted information by using said private key,

wherein said controller uses said information in addition to said pseudo random-number.

3.   The digital video scrambler according to
Claim 1, further comprising

        an encryption parameter generator for
generating a pseudo random-number to create a
substitution table, and

        said substitutor performs said character
substitution processing by using said substitution
table.

4.   The digital video scrambler according to
Claim 2, further comprising

        an encryption parameter generator for
generating a pseudo random-number to create a
substitution table, and

        said substitutor performs said character
substitution processing by using said substitution
table.

5.   The digital video scrambler according to
Claim 1,

        wherein there are provided said substitutor
in plural number, and said controller determines
substituted-character positions each of which
corresponds to each of said plural substitutors, and
allocates said substituted-character positions to said
plural substitutors.

6.   The digital video scrambler according to
Claim 2,

        wherein there are provided said substitutor
in plural number, and said controller determines

substituted-character positions each of which
corresponds to each of said plural substitutors, and
allocates said substituted-character positions to said
plural substitutors.

7.   The digital video scrambler according to
Claim 3,

        wherein there are provided said substitutor
in plural number, and said controller determines
substituted-character positions each of which
corresponds to each of said plural substitutors, and
allocates said substituted-character positions to said
plural substitutors.

8.   A digital video descrambler connected via a
network to said scrambler according to Claim 1, said
descrambler comprising:

        a unit for acquiring said substitution-
processed inputted video stream,

        a parser for parsing said content of said
inputted video stream to detect said header portion
thereof,

        a controller for generating a pseudo random-
number based on a private key, and determining a
substituted-character restoring position other than
said header portion using said pseudo random-number,
and

        an inverse substitutor for performing a
substituted-character restoration processing at said
determined position.

9.   The digital video descrambler according to
Claim 8, further comprising

          an output unit for outputting identification
information via said network, and

          a receiver for receiving said private key via
said network, said private key being sent out as a
result of an authentication based on said
identification information.

10.   A scramble program, comprising the steps of:

          generating a pseudo random-number to create a
substitution table, and holding said substitution
table,

          outputting said substitution table via a
network,

          acquiring an encoded video signal via an
input unit,

          parsing the signal of said encoded video
signal,

          determining whether or not to perform a
character substitution to said signal, and

          transforming said signal in accordance with
said substitution table if it has been judged to
perform said character substitution,

          wherein a signal subsequent to said signal is
read in, and said steps are repeated until said video
signal has disappeared, a determination criterion as to
whether or not to perform said character substitution
being modified in correspondence with said parsed

result.

11.   The scramble program according to Claim 10,

wherein said substitution table is outputted

in a state of being encrypted, and further comprising

a step of exchanging key information with a

computer at an output destination of said encoded

signal, said key information being necessary for

decrypting said encryption.

12.   A descramble program, comprising the steps

of:

acquiring, via a network, an encoded signal,

information on a cipher decryption, and information on

a substitution table used for said encoding,

creating, from said information on said

substitution table, a substitution-decrypting table

corresponding thereto, and recording said substitution-

decrypting table into a record means,

reading said signal, and parsing the syntax

for encoding said signal,

judging whether or not to substitution-

decrypt said signal using said parsed result, and

substitution-decrypting said signal that has

been judged to be substitution-decrypted using said

substitution-decrypting table,

wherein a signal next to said read-in signal

is read in, and said steps are repeated.